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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,807	07/09/2003	Vladimir M. Segal	H0004116-US	8639	
21567	7590 09/20/2005		EXAM	EXAMINER	
WELLS ST. JOHN P.S.			WILKINS III, HARRY D		
601 W. FIRST AVENUE, SUITE 1300 SPOKANE, WA 99201			ART UNIT	PAPER NUMBER	
,			1742		
			DATE MAILED: 09/20/2009	DATE MAILED: 09/20/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			_1			
	Application No.	Applicant(s)	-/-			
	10/614,807	SEGAL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Harry D. Wilkins, III	1742				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin iiil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_· ·					
2a) This action is FINAL . 2b) This	☐ This action is FINAL . 2b)☐ This action is non-final.					
3) Since this application is in condition for allowan						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims	•					
4) Claim(s) 1-109 is/are pending in the application	١.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.		•				
7) Claim(s) is/are objected to.	election requirement					
8) Claim(s) <u>1-109</u> are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	ACTION OF TOMIT PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents						
2. Certified copies of the priority documents	• •					
 Copies of the certified copies of the prior application from the International Bureau 		ed in this National Stage				
* See the attached detailed Office action for a list		ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D	ate Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	FF (1.5)				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-15, drawn to a high-purity copper sputtering target, classified in class 148, subclass 432.
 - II. Claims 16-39, drawn to a copper alloy sputtering target, classified in class 148, subclass 432.
 - III. Claims 40-46, drawn to a monolithic copper alloy sputtering target, classified in class 148, subclass 432.
 - IV. Claims 47-58, drawn to a bonded copper alloy sputtering target, classified in class 148, subclass 432.
 - V. Claims 59-62, drawn to a method of forming a monolithic copper alloy sputtering target, classified in class 148, subclass 679.
 - VI. Claims 63-66, drawn to a method of forming a monolithic copper sputtering target, classified in class 148, subclass 679.
 - VII. Claims 67-71, drawn to a method of forming a bonded copper sputtering target, classified in class 148, subclass 679.
 - VIII. Claims 72-78, drawn to a method of forming a bonded copper alloy sputtering target, classified in class 148, subclass 679.
 - IX. Claims 79-93, drawn to a method of forming a copper sputtering target, classified in class 148, subclass 679.

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X. Claims 94-109, drawn to a method of forming a copper alloy sputtering target, classified in class 148, subclass 679.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and IX, II and X, III and V/VI and IV and VII/VIII are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the products as claimed can be made by another and materially different process, such as ECAE or cold working.
- 3. Inventions I and II-VIII and X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.
- 4. Inventions II and I and III-IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.
- 5. Inventions III and I, II, IV and VII-X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have

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different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.

- 6. Inventions IV and I-III, V, VI, IX and X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.
- 7. Inventions V and I, II, IV and VI-X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.
- 8. Inventions VI and I, II, IV, V and VII-X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.
- 9. Inventions VII and I-III, V, VI, VIII and VII-X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP §

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806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.

- 10. Inventions VIII and I-III, V-VII, IX and X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.
- 11. Inventions IX and II-VIII and X are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.
- 12. Inventions X and I and III-IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects because of the different properties of the different produced sputtering targets.
- 13. Because these inventions are distinct for the reasons given above and the search required for any Group is not required for any other Group, restriction for examination purposes as indicated is proper.

14. With respect to group III, this group contains claims directed to the following patentably distinct species of the claimed invention: (a) copper alloy targets (claims 41-43) and (b) high-purity copper targets (claim 44).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 40, 45 and 46 are generic.

15. With respect to group IV, this group contains claims directed to the following patentably distinct species of the claimed invention: (a) copper alloy targets (claims 48-50) and (b) high-purity copper targets (claim 51).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 47 and 52-58 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 16. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 17. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry D. Wilkins, III whose telephone number is 571-272-1251. The examiner can normally be reached on M-F 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy V. King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harry D Wilkins, III

Examiner

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